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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  FEB 28  PATDPAFULL - New display fields provide for legal status
                  data from INPADOC
 NEWS  4  FEB 28  BABS - Current-awareness alerts (SDIs) available
 NEWS  5  MAR 02  GBFULL: New full-text patent database on STN
 NEWS  6  MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  7  MAR 03  MEDLINE file segment of TOXCENTER reloaded
 NEWS  8  MAR 22  KOREAPAT now updated monthly; patent information enhanced
 NEWS  9  MAR 22  Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  10 MAR 22  PATDPASPC - New patent database available
 NEWS  11 MAR 22  REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  12 APR 04  EPFULL enhanced with additional patent information and new
                  fields
 NEWS  13 APR 04  EMBASE - Database reloaded and enhanced
 NEWS  14 APR 18  New CAS Information Use Policies available online
 NEWS  15 APR 25  Patent searching, including current-awareness alerts (SDIs),
                  based on application date in CA/CAplus and USPATFULL/USPAT2
                  may be affected by a change in filing date for U.S.
                  applications.
 NEWS  16 APR 28  Improved searching of U.S. Patent Classifications for
                  U.S. patent records in CA/CAplus
 NEWS  17 MAY 23  GBFULL enhanced with patent drawing images
 NEWS  18 MAY 23  REGISTRY has been enhanced with source information from
                  CHEMCATS
 NEWS  19 JUN 06  STN Patent Forums to be held in June 2005
 NEWS  20 JUN 06  The Analysis Edition of STN Express with Discover!
                  (Version 8.0 for Windows) now available
 NEWS  21 JUN 13  RUSSIAPAT: New full-text patent database on STN
 NEWS  22 JUN 13  FRFULL enhanced with patent drawing images
 NEWS  23 JUN 20  MEDICONF to be removed from STN

 NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 09:48:51 ON 23 JUN 2005

=> FIL STNGUIDE
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	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 17, 2005 (20050617/UP).

=> FIL HOME
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FULL ESTIMATED COST	0.06	0.48

FILE 'HOME' ENTERED AT 09:50:02 ON 23 JUN 2005

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.69

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FILE LAST UPDATED: 22 Jun 2005 (20050622/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> E HIRATSUKA YUICHI/AU 25

E1	2	HIRATSUKA YOSHIMUNE/AU
E2	8	HIRATSUKA YOSHIZO/AU
E3	9	--> HIRATSUKA YUICHI/AU
E4	10	HIRATSUKA YUJI/AU
E5	2	HIRATSUKA YUKARI/AU

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E6            1     HIRATSUKA YUKIJI/AU
E7            1     HIRATSUKA YUKIO/AU
E8            1     HIRATSUKA YUKITADA/AU
E9            4     HIRATSUKA YUKIYA/AU
E10           1     HIRATSUKA YUKIZO/AU
E11           6     HIRATSUKA YUKO/AU
E12           1     HIRATSUKA YURIKO/AU
E13          38     HIRATSUKA YUTAKA/AU
E14           1     HIRATSUNA KUNI/AU
E15          10     HIRATSUNA SATOSHI/AU
E16           1     HIRATTA T/AU
E17           1     HIRATU YUKARI/AU
E18           2     HIRATUKA ATUKO/AU
E19           1     HIRATUKA HAJIME/AU
E20           2     HIRATUKA HIROAKI/AU
E21           1     HIRATUKA KEUSUKE/AU
E22           3     HIRATUKA KIZO/AU
E23           1     HIRATUKA KYOKO/AU
E24           1     HIRATUKA MASAHITO/AU
E25           1     HIRATUKA SADATO/AU

=> S (E3)
L1            9 ("HIRATSUKA YUICHI"/AU)

=> DIS L1 1 TI

L1   ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Living microtransporter by uni-directional gliding of Mycoplasma along
     microtracks


=> d ti 1-9

L1   ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Living microtransporter by uni-directional gliding of Mycoplasma along
     microtracks

L1   ANSWER 2 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Motor protein nano-biomachine powered by self-supplying ATP

L1   ANSWER 3 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Use of motor protein as nanoactuator

L1   ANSWER 4 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Motor proteins as nano-actuators

L1   ANSWER 5 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Amino acids 519-524 of Dictyostelium myosin II form a surface loop that
     aids actin binding by facilitating a conformational change

L1   ANSWER 6 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Minute drive component and its production method

L1   ANSWER 7 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Controlling the direction of kinesin-driven microtubule movements along
     microlithographic tracks

L1   ANSWER 8 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Functional characterization of vertebrate nonmuscle myosin IIB isoforms
     using Dictyostelium chimeric myosin II

L1   ANSWER 9 OF 9  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Reactivities of Cys707 (SH1) in intermediate states of myosin
```

subfragment-1 ATPase

=> d ab bib 1,2,3,7

L1 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AB The gliding bacterium Mycoplasma mobile adheres to plastic surfaces and moves around vigorously. However, it has not been possible to control the direction of movements on plain surfaces. Here we report that, on patterned lithog. substrates, M. mobile cells are unable to climb tall walls and move along the bottom edge of the walls. This property to move persistently along walls enabled us to design patterns that control direction of movements, resulting in uni-directional circling or one-way gating between two areas. Furthermore, cells loaded with streptavidin beads following biotinylation of surface proteins moved at normal speeds. These bacteria could be useful as living microtransporters, carrying cargo around within micrometer-scale spaces.
AN 2005:354255 CAPLUS
TI Living microtransporter by uni-directional gliding of Mycoplasma along microtracks
AU **Hiratsuka, Yuichi**; Miyata, Makoto; Uyeda, Taro Q. P.
CS Gene Function Research Center, National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, 305-8562, Japan
SO Biochemical and Biophysical Research Communications (2005), 331(1), 318-324
CODEN: BBRCA9; ISSN: 0006-291X
PB Elsevier
DT Journal
LA English
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AB A new nano-biomachine has been created from microtubules (MTs) and hetero-bifunctional polymer particles bearing pyruvate kinase, which is propelled on glass surfaces coated with kinesin by use of self-supplying ATP.
AN 2005:354117 CAPLUS
TI Motor protein nano-biomachine powered by self-supplying ATP
AU Du, Yong-Zhong; **Hiratsuka, Yuichi**; Taira, Shu; Eguchi, Masaru; Uyeda, Taro Q. P.; Yumoto, Noboru; Kodaka, Masato
CS Institute for Biological Resources and Functions, National Institute of Advanced Industrial Science and Technology (AIST), 1-1-1 Higashi, Tsukuba, 305-8566, Japan
SO Chemical Communications (Cambridge, United Kingdom) (2005), (16), 2080-2082
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AB A review on the works on using a motor protein (e.g., kinesin) as an nanoactuator in a microspace such as a micromachine. A discussion is also made on the future prospect of application to a biochem. reaction chip.
AN 2004:96318 CAPLUS
DN 141:84807
TI Use of motor protein as nanoactuator
AU **Hiratsuka, Yuichi**; Ueda, Taro
CS National Institute of Advanced Industrial Science and Technology, Japan
SO Kagaku (Kyoto, Japan) (2004), 59(1), 32-33

CODEN: KAKYAU; ISSN: 0451-1964
PB Kagaku Dojin
DT Journal; General Review
LA Japanese

L1 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AB Motor proteins are able to move protein filaments in vitro. However, useful work cannot be extracted from the existing in vitro systems because filament motions are in random directions on two-dimensional surfaces. We succeeded in restricting kinesin-driven movements of microtubules along linear tracks by using micrometer-scaled grooves lithog. fabricated on glass surfaces. We also accomplished the extraction of unidirectional movement from the bidirectional movements along the linear tracks by adding arrowhead patterns on the tracks. These rectifiers enabled us to construct microminiaturized circulators in which populations of microtubules rotated in one direction, and to actively transport microtubules between two pools connected by arrowheaded tracks in the fields of micrometer scales.
AN 2001:634759 CAPLUS
DN 135:300090
TI Controlling the direction of kinesin-driven microtubule movements along microlithographic tracks
AU **Hiratsuka, Yuichi**; Tada, Tetsuya; Oiwa, Kazuhiro; Kanayama, Toshihiko; Uyeda, Taro Q. P.
CS Gene Discovery Research Center, National Institute of Advanced Industrial Science and Technology, Japan Science and Technology Corporation, Tsukuba, 305-8562, Japan
SO Biophysical Journal (2001), 81(3), 1555-1561
CODEN: BIOJAU; ISSN: 0006-3495
PB Biophysical Society
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> E UYEDA TARO/AU 25

E1	1		UYEDA TAKEO/AU
E2	2		UYEDA TANYA T/AU
E3	1	-->	UYEDA TARO/AU
E4	64		UYEDA TARO Q P/AU
E5	2		UYEDA TETSUO/AU
E6	1		UYEDA TOMOMI/AU
E7	9		UYEDA Y/AU
E8	1		UYEDA YASUHIRO/AU
E9	2		UYEDA YO/AU
E10	7		UYEDA YOSHIO/AU
E11	25		UYEDA YOSHISUKE/AU
E12	1		UYEDA YOSHIYUKI/AU
E13	1		UYEDA YU ICHI/AU
E14	4		UYEDINOV M N/AU
E15	1		UYEGAKI MISAO/AU
E16	1		UYEHA AKIRA/AU
E17	2		UYEHA H/AU
E18	1		UYEHA HAJIME/AU
E19	6		UYEHA HAJIMU/AU
E20	1		UYEHARA C F T/AU
E21	1		UYEHARA CATHERINE/AU
E22	12		UYEHARA CATHERINE F T/AU
E23	1		UYEHARA CATHERINE FAY TAKAKO/AU
E24	1		UYEHARA CLYDE T/AU
E25	1		UYEHARA G K/AU

```
=> S (E3)
L2            1 ("UYEDA TARO"/AU)

=> d ti 1

L2   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   The effect of cold-working on the density and electrical resistance of
     metals


=> E TADA TETSUYA/AU 25
E1            2     TADA TETSUO/AU
E2            2     TADA TETSURO/AU
E3           62 --> TADA TETSUYA/AU
E4            2     TADA TOHRU/AU
E5            3     TADA TOKUO/AU
E6          210     TADA TOMIO/AU
E7           22     TADA TOMOFUMI/AU
E8           12     TADA TOMOHIRO/AU
E9            7     TADA TOMOKI/AU
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E11          14     TADA TOMONORI/AU
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E20           5     TADA TOSHIFUMI/AU
E21           1     TADA TOSHIHARN/AU
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E23           2     TADA TOSHIHIKO/AU
E24           5     TADA TOSHIHIRO/AU
E25          80     TADA TOSHIJI/AU

=> S (E3)
L3           62 ("TADA TETSUYA"/AU)

=> S (E3) AND (TRACK OR GOOVE OR LINEAR)
             62 "TADA TETSUYA"/AU
          32086 TRACK
          16902 TRACKS
          41557 TRACK
                  (TRACK OR TRACKS)
              1 GOOVE
              1 GOOVES
              2 GOOVE
                  (GOOVE OR GOOVES)
         543880 LINEAR
             55 LINEARS
         543904 LINEAR
                  (LINEAR OR LINEARS)
L4            5 ("TADA TETSUYA"/AU) AND (TRACK OR GOOVE OR LINEAR)

=> DIS L4 1 TI

L4   ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Si pillar photonic crystal slab with linear defects:
     transmittance and waveguide properties
```

=> d ti 2-5

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
TI Minute drive component and its production method

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
TI Controlling the direction of kinesin-driven microtubule movements along microlithographic **tracks**

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
TI Optical absorption edge and photoluminescence spectra in amorphous and crystalline boron-rich solids

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
TI Photoluminescence peak shift with increasing temperature and excitation intensity in amorphous hydrogenated silicon

=> d ab bib 3

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
AB Motor proteins are able to move protein filaments in vitro. However, useful work cannot be extracted from the existing in vitro systems because filament motions are in random directions on two-dimensional surfaces. We succeeded in restricting kinesin-driven movements of microtubules along **linear tracks** by using micrometer-scaled grooves lithog. fabricated on glass surfaces. We also accomplished the extraction of unidirectional movement from the bidirectional movements along the **linear tracks** by adding arrowhead patterns on the **tracks**. These rectifiers enabled us to construct microminiaturized circulators in which populations of microtubules rotated in one direction, and to actively transport microtubules between two pools connected by arrowheaded **tracks** in the fields of micrometer scales.
AN 2001:634759 CAPLUS
DN 135:300090
TI Controlling the direction of kinesin-driven microtubule movements along microlithographic **tracks**
AU Hiratsuka, Yuichi; **Tada, Tetsuya**; Oiwa, Kazuhiro; Kanayama, Toshihiko; Uyeda, Taro Q. P.
CS Gene Discovery Research Center, National Institute of Advanced Industrial Science and Technology, Japan Science and Technology Corporation, Tsukuba, 305-8562, Japan
SO Biophysical Journal (2001), 81(3), 1555-1561
CODEN: BIOJAU; ISSN: 0006-3495
PB Biophysical Society
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> E KANAYAMA TOSHIHIKO/AU 25

E1	1		KANAYAMA TORAO/AU
E2	1		KANAYAMA TOSHI/AU
E3	151	-->	KANAYAMA TOSHIHIKO/AU
E4	1		KANAYAMA TOSHIHKO/AU
E5	31		KANAYAMA TOSHIJI/AU
E6	3		KANAYAMA TOSHIKATSU/AU
E7	1		KANAYAMA TOSHIKI/AU
E8	3		KANAYAMA TOSHIKO/AU
E9	6		KANAYAMA TOSHIMOTO/AU
E10	2		KANAYAMA TOSHIO/AU

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E11          2     KANAYAMA TOSHIYOSHI/AU
E12          1     KANAYAMA TOYOSHI/AU
E13          1     KANAYAMA TSURUZO/AU
E14          1     KANAYAMA TSUTOMU/AU
E15          1     KANAYAMA TUDUKI/AU
E16         21     KANAYAMA Y/AU
E17          7     KANAYAMA YASUFUMI/AU
E18          1     KANAYAMA YASUHARU/AU
E19          3     KANAYAMA YASUO/AU
E20          2     KANAYAMA YOICHI/AU
E21          1     KANAYAMA YOJI/AU
E22          1     KANAYAMA YOKO/AU
E23         34     KANAYAMA YOSHIHARU/AU
E24          2     KANAYAMA YOSHIHIKO/AU
E25          9     KANAYAMA YOSHIHIRO/AU

=> S (E3) AND (TRACK OR GOOVE OR LINEAR)
           151 "KANAYAMA TOSHIHIKO"/AU
         32086 TRACK
         16902 TRACKS
         41557 TRACK
                 (TRACK OR TRACKS)
             1 GOOVE
             1 GOOVES
             2 GOOVE
                 (GOOVE OR GOOVES)
        543880 LINEAR
            55 LINEARS
        543904 LINEAR
                 (LINEAR OR LINEARS)
L5            6 ("KANAYAMA TOSHIHIKO"/AU) AND (TRACK OR GOOVE OR LINEAR)

=> d ti 1-6

L5   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Si pillar photonic crystal slab with linear defects:
     transmittance and waveguide properties

L5   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Minute drive component and its production method

L5   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Controlling the direction of kinesin-driven microtubule movements along
     microlithographic tracks

L5   ANSWER 4 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Injection of mass-selected ions into a quadrupole ion trap

L5   ANSWER 5 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   SOI formation using lateral solid-phase epitaxy induced by focused ion
     beam

L5   ANSWER 6 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Lateral solid-phase epitaxy of silicon induced by focused ion beams


=>  d ab bib 3

L5   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
AB   Motor proteins are able to move protein filaments in vitro.  However,
     useful work cannot be extracted from the existing in vitro systems because
     filament motions are in random directions on two-dimensional surfaces.  We
     succeeded in restricting kinesin-driven movements of microtubules along
```

linear tracks by using micrometer-scaled grooves lithog. fabricated on glass surfaces. We also accomplished the extraction of unidirectional movement from the bidirectional movements along the **linear tracks** by adding arrowhead patterns on the **tracks**. These rectifiers enabled us to construct microminiaturized circulators in which populations of microtubules rotated in one direction, and to actively transport microtubules between two pools connected by arrowheaded **tracks** in the fields of micrometer scales.

AN 2001:634759 CAPLUS
DN 135:300090
TI Controlling the direction of kinesin-driven microtubule movements along microlithographic **tracks**
AU Hiratsuka, Yuichi; Tada, Tetsuya; Oiwa, Kazuhiro; **Kanayama, Toshihiko**; Uyeda, Taro Q. P.
CS Gene Discovery Research Center, National Institute of Advanced Industrial Science and Technology, Japan Science and Technology Corporation, Tsukuba, 305-8562, Japan
SO Biophysical Journal (2001), 81(3), 1555-1561
CODEN: BIOJAU; ISSN: 0006-3495
PB Biophysical Society
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
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=> index bioscience
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FULL ESTIMATED COST	50.48	51.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.38	-4.38

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75 FILES IN THE FILE LIST IN STNINDEX

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=> track and groove and protein and linear
2 FILE BIOSIS
1 FILE BIOTECHNO
16 FILES SEARCHED...
2 FILE CAPLUS
27 FILES SEARCHED...
2 FILE EMBASE
1 FILE ESBIOBASE
40 FILES SEARCHED...
4 FILE IFIPAT
1 FILE MEDLINE
5 FILE PROMT
1 FILE RDISCLOSURE
64 FILES SEARCHED...
1 FILE SCISEARCH
820 FILE USPATFULL

```
         71   FILE USPAT2

  12 FILES HAVE ONE OR MORE ANSWERS,    75 FILES SEARCHED IN STNINDEX

L6   QUE TRACK AND GROOVE AND PROTEIN AND LINEAR

=> d rank
F1          820   USPATFULL
F2           71   USPAT2
F3            5   PROMT
F4            4   IFIPAT
F5            2   BIOSIS
F6            2   CAPLUS
F7            2   EMBASE
F8            1   BIOTECHNO
F9            1   ESBIOBASE
F10           1   MEDLINE
F11           1   RDISCLOSURE
F12           1   SCISEARCH


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'BIOISIS' IS NOT A VALID FILE NAME
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
ENTER A FILE NAME OR (IGNORE):ignore
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.95      54.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -4.38

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FILE 'BIOTECHNO' ENTERED AT 10:02:03 ON 23 JUN 2005
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=> track and groove and protein and linear
L7            6 TRACK AND GROOVE AND PROTEIN AND LINEAR

=> d ti 1-6

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TI   Trade name directory. (K-Z).

L7   ANSWER 2 OF 6  PROMT  COPYRIGHT 2005 Gale Group on STN

TI   New Products.(Product Announcement)

L7   ANSWER 3 OF 6  PROMT  COPYRIGHT 2005 Gale Group on STN

TI   New Products.(Product Announcement)(Statistical Data Included)

L7   ANSWER 4 OF 6  PROMT  COPYRIGHT 2005 Gale Group on STN

TI   Pittcon 2000 New Products.
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L7 ANSWER 5 OF 6 PROMT COPYRIGHT 2005 Gale Group on STN

TI World of ophthalmology converges upon New Orleans.

L7 ANSWER 6 OF 6 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
TI DNA structure: What's in charge?